

6.3 Integration by Parts

$$\int u \, dv = uv - \int v \, du$$

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$$\int x \cos(x) \, dx$$

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Repeated use of integration by parts

$$\int x^2 \cos(x) dx$$

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Tabular Integration

$$\int x^2 \cos(x) dx$$

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$$\int x^3 \sin(x) dx$$

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Solve the differential equation $dy/dx = x \ln(x)$ subject to the initial conditions $y=-1$ when $x=1$

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Find the solution to the differential equation $\frac{dy}{dx} = \sin^{-1}x$
if the graph of the solution passes through the point (0,0)

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